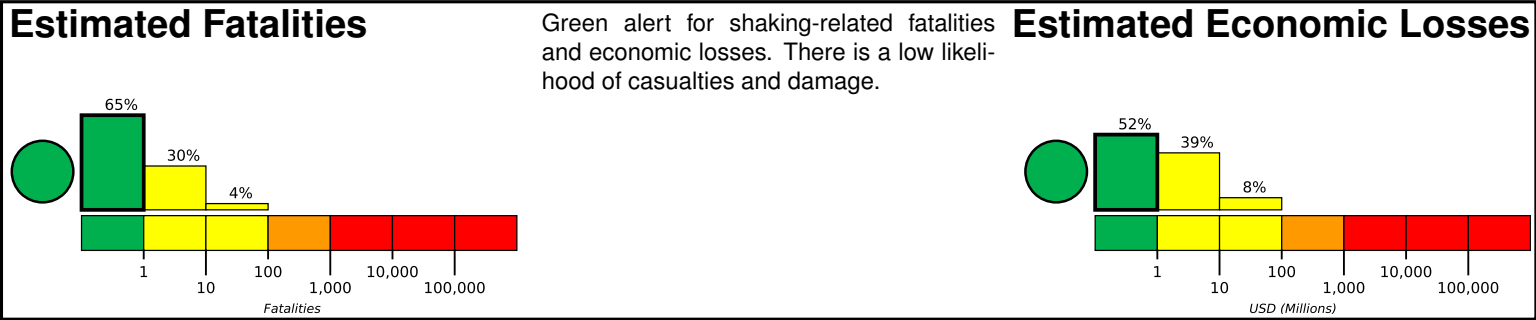


M 5.5, 9 km SSE of Maca, Peru
Origin Time: 2023-06-02 19:49:15 UTC (Fri 14:49:15 local)
Location: 15.7173° S 71.7368° W Depth: 10.0 km

PAGER Version 1

Created: 21 hours, 21 minutes after earthquake

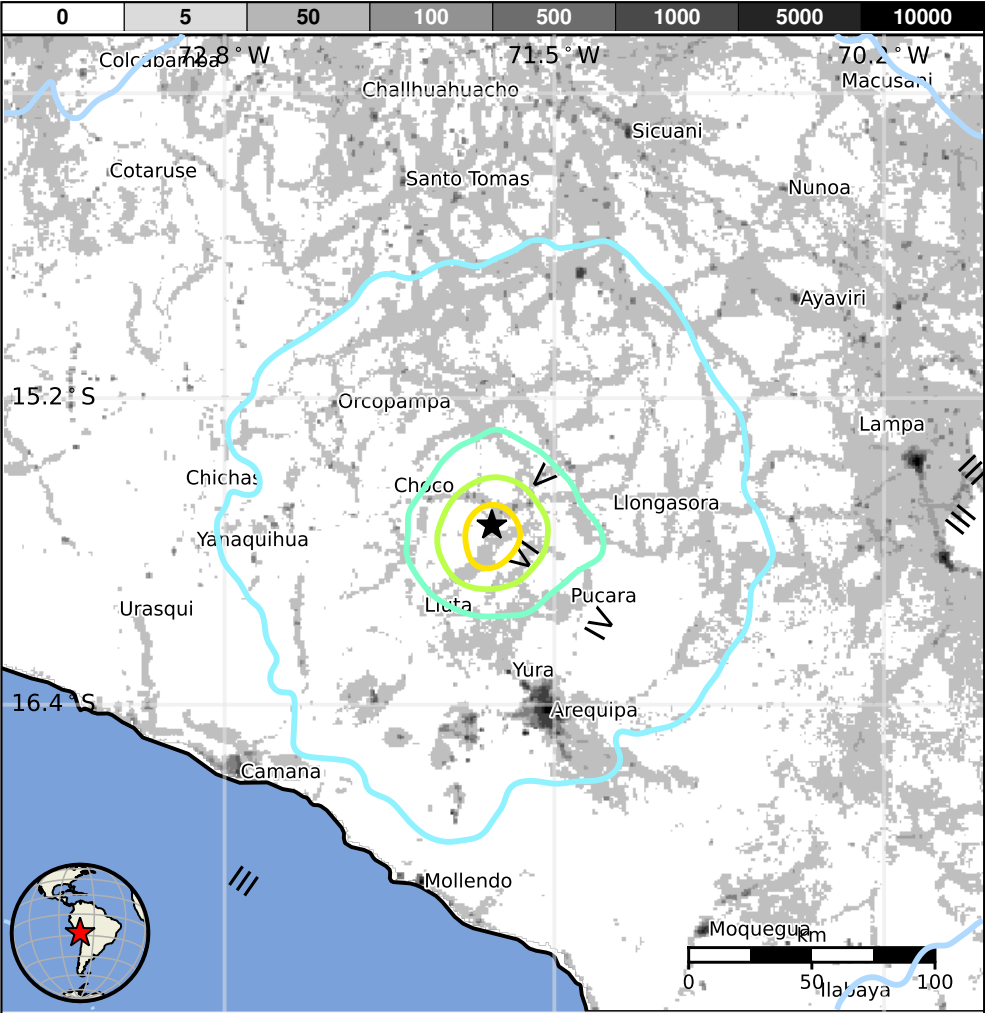


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,519k*	1,440k	15k	9k	5k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-08-13	257	6.5	VII(62k)	1
1999-04-03	130	6.8	VII(51k)	1
2001-06-23	202	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Achoma	<1k
VII	Maca	<1k
VI	Ichupampa	<1k
VI	Yanque	<1k
VI	Lari	<1k
VI	Chivay	5k
IV	Arequipa	841k
III	Juliaca	246k
III	Sicuani	34k
III	Moquegua	55k
III	Puno	117k